

CRITICAL ITEMS LIST (CIL)

SYSTEM:	Thermal Protection System	FUNCTIONAL CRIT:	1
SUBSYSTEM:	Components	PHASE(S):	b
REV & DATE:	J, 12-19-97	HAZARD REF:	T-02
DCN & DATE:			
ANALYST(S):	B. Burkes/R. Laudo		

FAILURE MODE: Loss of SLA Material

FAILURE EFFECT: b) Loss of mission and vehicle/crew due to debris impacting orbiter in critical areas.
Loss of mission and vehicle/crew due to structural failure resulting in improper separation of SRB's.

TIME TO EFFECT: Seconds

FAILURE CAUSE(S): A: Material Deficiency
B: Process Deficiency

REDUNDANCY SCREENS: Not Applicable

FUNCTIONAL DESCRIPTION: This ablative material protects the SRB separation mechanism wire assembly from ascent environments.

FMEA ITEM CODE(S)	PART NO.	PART NAME	ATY	EFFECTIVITY
5.8.20.1	80973028412	Fairing Assy, TPS LH	1	LWT-54 & Up
	80973028412	Fairing Assy, TPS RH	1	LWT-54 & Up
	80973028412	Base Assy, TPS LH	1	LWT-54 & Up
	80973028412	Base Assy, TPS RH	1	LWT-54 & Up

REMARKS: The ET/SRB forward interface hardware SLA applications are grouped as the failure mode, causes and effects are the same.

CRITICAL ITEMS LIST (CIL)
CONTINUATION SHEET

SYSTEM: Thermal Protection System
SUBSYSTEM: Components
FMEA ITEM CODE(S): 5.8.20.1

REV & DATE: J, 12-19-97
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RATIONALE FOR RETENTION

STP1506, 1509, 3001 and 3003 are applicable to this FMEA Item Code. See Page 1 for Retention Rationale specified by these STP's. The following additional Retention Rationale is also applicable to this FMEA Item Code:

DESIGN:

No additional Rationale for Retention is applicable.

TEST:

The ET/SRB Forward Interface Hardware SLA Applications are certified. Reference HCS's MMG-ET-TM08-1-T016 and T505. Refer to the HCS(s) for effectiveness data applicable to specific part numbers and material type.

INSPECTION:

No additional Rationale for Retention is applicable.

FAILURE HISTORY:

Current data on test failures, unexplained anomalies and other failures experienced during ground processing activity can be found in the PRACA data base.